

Sub B1  
1. A keyless deadbolt lock engaging apparatus for use with a conventional deadbolt assembly, the apparatus comprising:

an actuator means to engage the deadbolt assembly;

a rotational means capable of rotating from a first position in which the actuator means is in a deadbolt disengaged position to a second position in which the actuator means is in a deadbolt engaged position; and

a biasing means to return the rotational means from the second position to the first position while the actuator means remains in the deadbolt engaged position.

2. The keyless deadbolt lock engaging apparatus of claim 1 wherein the biasing means is a spring mechanism.

3. The keyless deadbolt lock engaging apparatus of claim 1 wherein the biasing means includes a torsional type spring.

4. The keyless deadbolt lock engaging apparatus of claim 1 wherein the biasing means includes a coiled constant force type spring.

5. The keyless deadbolt lock engaging apparatus of claim 1 wherein the biasing means includes a coiled extension type having end loops.

6. The keyless deadbolt lock engaging apparatus of claim 1 wherein the biasing means includes a helical coiled compression spring.

7. The keyless deadbolt lock engaging apparatus of claim 1 wherein the actuator means is a radial actuator.

8. The keyless deadbolt lock engaging apparatus of claim 1 wherein the actuator means is a paddle actuator.

Sub 9. The keyless deadbolt lock engaging apparatus of claim 1 wherein the rotational means is a rotating ring.

10. A keyless deadbolt lock engaging apparatus for use with a conventional deadbolt lock assembly, the lock assembly having an axial actuator, the apparatus comprising:

a body having a center aperture through which the lock assembly is located, the lock assembly being secured to the body;

a locator ring to secure the apparatus to a door fitted with the conventional deadbolt lock assembly;

a radial actuator means to engage the deadbolt assembly, the radial actuator including an arm extension and a center aperture through which the deadbolt lock assembly axial actuator is located;

a rotational ring means capable of rotating from a first position in which the actuator means is in a deadbolt disengaged position to a second position in which the actuator means is in a deadbolt engaged position; and

a biasing means to return the rotational means from the second position to the first position while the actuator means remains in the deadbolt engaged position.

11. The keyless deadbolt lock engaging apparatus of claim 10 wherein the biasing means is a spring mechanism.

12. The keyless deadbolt lock engaging apparatus of claim 10 wherein the biasing means includes a torsional type spring.

13. The keyless deadbolt lock engaging apparatus of claim 10 wherein the biasing means includes a coiled constant force type spring.

14. The keyless deadbolt lock engaging apparatus of claim 10 wherein the biasing means includes a coiled extension type having end loops.

15. The keyless deadbolt lock engaging apparatus of claim 10 wherein the biasing means includes a helical coiled compression spring.

Sub 16. A keyless deadbolt lock engaging apparatus for use in combination with a conventional deadbolt lock tumbler assembly having an axial actuator, the apparatus comprising;

a locator ring to secure the apparatus to a door to be fitted with the conventional deadbolt lock assembly;

a body to substantially house the lock assembly;

a rotatable ring, the rotatable ring including a radial finger;

a return spring mechanism; and

a radial actuator having a projecting arm, the arm being located adjacent to and moveable by the rotatable ring radial finger, the radial actuator further including a center aperture through which the tumbler actuator is located;

whereby upon turning the rotatable ring from a first position to a second position the radial finger pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, and further whereby upon release of the rotatable ring the return spring mechanism causes the rotatable ring to rotate back to the first position while allowing the radial actuator to remain in the deadbolt engaged position.

17. The keyless deadbolt lock engaging apparatus of claim 16 herein the locator ring further includes a projection having an outer shoulder projection of decreased diameter;

wherein the body includes a channel portion, the channel portion including shoulder grooves, the body further including step projections extending into the center of the body, the step projections preventing the body from rotating about the tumbler assembly, the portion of the body adjacent the locator ring being a shoulder of a decreased diameter, the body shoulder and locator ring shoulder forming a radial channel;

wherein the rotatable ring is located within and is rotatable about the radial channel formed by the body and locator ring, the rotatable ring including a radial finger extending inward, the radial finger having a notch;

wherein the return spring mechanism includes a spring ring including a spring stop, a grooved portion and an end stop, the spring ring being located within the body channel, the grooved portion being located within the rotatable ring finger notch; and

a return helical coiled compression return spring coiled about the spring ring, the return spring being located between the spring ring spring stop and the body shoulder groove;

whereby upon turning the rotatable ring from an original position the radial finger pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, the radial finger further pushing the spring ring by the grooved portion thereby causing the return spring to be compressed between the body shoulder groove and the spring ring spring stop, and further whereby upon release of the rotatable ring the return spring causes the rotatable ring to rotate back to the original position while allowing the radial actuator to remain in the deadbolt engaged position.

18. The keyless deadbolt lock engaging apparatus of claim 16 wherein the body includes a body slot;

the rotatable ring radial finger includes a radial finger slot;

the spring mechanism includes a torsional type spring having a first and a second elongated member being joined at a coiled member, the first elongated member being connected to the radial finger slot, the second elongated member being connected to the body slot;

whereby upon turning the rotatable ring from an original position pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, the radial finger further pulling the first elongated member as the second elongated member remains connected to the body slot to increase the torsional force on the coiled member, and further whereby upon release of the rotatable ring the coiled member forces the rotatable ring back to the original position through the first elongated member while allowing the radial actuator to remain in the deadbolt engaged position.

19. The keyless deadbolt lock engaging apparatus of claim 16 wherein the body includes a body slot;

the rotatable ring radial finger includes a radial finger slot;

the spring mechanism includes a coiled constant force type spring having a first and a second spring end, the first spring end being connected to the radial finger slot, the second spring end being connected to the body slot;

whereby upon turning the rotatable ring from an original position pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, the radial finger further pulling the first spring end as the second spring end remains connected to the body slot to increase the torsional force on the spring, and further whereby upon release of the rotatable ring the spring forces

the rotatable ring back to the original position through the first spring end allowing the radial actuator to remain in the deadbolt engaged position.

20. The keyless deadbolt lock engaging apparatus of claim 16 wherein body includes a body slot; the rotatable ring radial finger includes a radial finger slot;

the spring mechanism includes a coiled extension type spring having a first and a second end loop, the first end loop being connected to the radial finger slot, the second end loop being connected to the body slot;

whereby upon turning the rotatable ring from an original position pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, the radial finger further pulling the first end loop as the second end loop remains connected to the body slot to increase the tension on the spring, and further whereby upon release of the rotatable ring the spring forces the rotatable ring back to the original position through the first end loop allowing the radial actuator to remain in the deadbolt engaged position.

21. The keyless deadbolt lock engaging apparatus of claim 16 wherein the locator ring further includes a projection having an outer shoulder projection of decreased diameter;

wherein the body includes a channel portion, the channel portion including shoulder grooves, the body further including step projections extending into the center of the body, the step projections preventing the body from rotating about the tumbler assembly, the portion of the body adjacent the locator ring being a shoulder of a decreased diameter, the body shoulder and locator ring shoulder forming a radial channel;

wherein the rotatable ring is located within and is rotatable about the radial channel formed by the body and locator ring, the rotatable ring including a radial finger extending inward, the radial finger having a notch;

wherein the return spring mechanism includes a spring ring including a spring stop, a grooved portion and an end stop, the spring ring being located within the body channel, the grooved portion being located within the rotatable ring finger notch, and

a return helical coiled compression return spring coiled about the spring ring, the return spring being located between the spring ring spring step and the body shoulder groove,

whereby upon turning the rotatable ring from an original position the radial finger pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, the radial finger further pulling the spring ring by the grooved portion thereby causing the return spring to be compressed between the body shoulder groove and the spring ring spring stop, and further whereby upon release of the rotatable ring the return spring causes the rotatable ring to rotate back to the original position while allowing the radial actuator to remain in the deadbolt engaged position.

22. The keyless deadbolt lock engaging apparatus of claim 16 wherein the body includes a base portion and a face portion, thereby forming an L-shaped cross-sectional lock assembly housing, the face portion including at least one semi-circular aperture;

the rotatable ring has a base portion and a face portion thereby forming an L-shaped cross-section sized to rotate within and against the body base portion and the body face portions, the rotatable ring further including at least one rotator projection extending from the face portion of the rotatable ring through the semi-circular aperture of the face portion of the body,

whereby the rotatable ring is encased by the body, but can be rotated from the exterior of the apparatus.

23. The keyless deadbolt lock engaging apparatus of claim 16 wherein the body includes a channeled shoulder portion along the body center aperture, the body further including an outer aperture of about 180 degrees or less; and

the rotatable ring is fitted to rotate within and against the body shoulder, the rotatable ring further including a rotator projection extending from the rotatable ring through the outer aperture, whereby the rotatable ring is encased by the body, but can be rotated from the exterior of the apparatus.

24. The keyless deadbolt lock engaging apparatus of claim 16 wherein the radial actuator is a bolt actuator having a paddle shaped surface;

whereby the rotatable ring radial finger pushes against the paddle surface to engage the deadbolt.

25. A keyless deadbolt lock engaging apparatus for use in combination with a conventional deadbolt lock tumbler assembly having an axial actuator, the apparatus comprising:

a locator ring to secure the apparatus to a door fitted with the conventional deadbolt lock assembly, the ring including a projection having an outer shoulder projection of decreased diameter;

a body including a channel portion, the channel portion including shoulder grooves, the body further including step projections extending into the center of the body, the step projections preventing the body from rotating about the tumbler assembly, the portion of the body adjacent the locator ring being a shoulder of a decreased diameter, the body shoulder and locator ring shoulder forming a radial channel;

a rotatable ring located within and being rotatable about the radial channel formed by the body and locator ring, the rotatable ring including a radial finger extending inward, the radial finger having a notch;

a spring ring including a spring stop, a grooved portion and an end stop, the spring ring being located within the body channel, the grooved portion being located within the rotatable ring finger notch;

a return helical coiled compression return spring coiled about the spring ring, the spring being located between the spring ring spring stop and the body channel shoulder; and

a radial actuator having a projecting arm, the arm being located adjacent to and moveable by the rotatable ring finger, the radial actuator further including a center aperture through which the tumbler actuator is located;

whereby upon turning the rotatable ring from an original position the radial finger pushes the radial actuator from a deadbolt disengaged position to a deadbolt engaged position, the radial finger further pulling the spring ring by the grooved portion thereby causing the return spring to be compressed between the body shoulder groove and the spring ring spring stop, and further whereby release of the rotatable ring the return spring causes the rotatable ring to rotate back to the original position while allowing the radial actuator to remain in the deadbolt engaged position.